

REMARKS/ARGUMENTS

The foregoing amendment and the following arguments are provided to impart precision to the claims, by more particularly pointing out the invention, rather than to avoid prior art.

35 U.S.C. § 103(a) Rejections

Examiner rejected claims 1, 5, 6, 13, 16, and 17 under 35 U.S.C. § 103(a) as being unpatentable over Chao, U.S. Patent No. 5,095,404 (hereinafter "Chao") in view of Hambrugen, U.S. Patent No. 4,966,226 (hereinafter "Hambrugen").

Claims 5 and 16 have been cancelled.

To establish *prima facie* obviousness of a claimed invention, all the claim limitations must be taught or suggested by the prior art. *In re Royka*, 490 F.2d 981, 180 USPQ 580 (CCPA 1974).

Claims 1 and 13 include limitations not disclosed by Chao or Hambrugen. Claim 1 includes a limitation of a dissipater section of a heat pipe attached to a second end of a base of the heat pipe, the dissipater section having a size of at least a surface area of a heat spreader. Claim 13 includes a limitation of a heat dissipater attached to a second end of a base of the heat pipe, wherein a width of the heat dissipater is greater than a width of the base, and the heat dissipater having a size of at least a surface area of a heat spreader. Neither of these limitations is disclosed by Chao or Hambrugen, and as a result, claims 1 and 13 are patentable over Chao and Hambrugen.

Specifically, Chao discloses a heat pipe including an evaporator section 35 over a heat spreader 23 and a condenser section 37 extending from the evaporator (See Fig. 4, Col. 3, lines 27-44). The condenser section 37, as can be

seen is approximately the same width as the evaporator section 35, and is narrower than the heat spreader 23. Therefore, Chao does not disclose a dissipater section having a size of at least a surface area of a heat spreader, as in claims 1 and 13.

Hamburgen discloses a heatpipe 30 including an evaporator 33 and a condenser 37 extending away from the evaporator 33 (See Fig. 2, Col. 3, lines 51-60). As can be seen, the condenser 37 is much narrower than the evaporator 33, and is also much narrower than the die attach platform 34. Hamburgen therefore does not disclose a dissipator section having a size of at least a surface area of a heat spreader, as in claims 1 and 13.

Since neither Chao nor Hamburgen discloses all the limitations of claims 1 and 13, claims 1 and 13 are patentable over Chao and Hamburgen. Claims 6 and 17 depend from claims 1 and 13, respectively, and therefore include all the limitations of claims 1 and 13. Since claims 1 and 13 are patentable over Chao and Hamburgen, claims 6 and 17 are also patentable over Chao and Hamburgen.

CONCLUSION

Applicants respectfully submit the present application is in condition for allowance. If the Examiner believes a telephone conference would expedite or assist in the allowance of the present application, the Examiner is invited to call the undersigned at (408) 720-8300.

Authorization is hereby given to charge our Deposit Account No. 02-2666 for any charges that may be due.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

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Arlen M. Hartounian
Reg. No. 52,997

12400 Wilshire Boulevard
Seventh Floor
Los Angeles, CA 90025-1026
(408) 720-8300